

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	988	548/540.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:10
L2	2446	514/423.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:10
L3	140	l1 and l2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:16

STN Structure Search
Registry/Caplus
10/565,294

01/18/2008

Connecting via Winsock to STN

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 4 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
NEWS 5 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 6 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 7 AUG 27 USPATOLD now available on STN
NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 10 SEP 13 FORIS renamed to SOFIS
NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 12 SEP 17 CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS 13 SEP 17 Caplus coverage extended to include traditional medicine patents
NEWS 14 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15 OCT 02 CA/Caplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 16 OCT 19 BEILSTEIN updated with new compounds
NEWS 17 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 18 NOV 19 WPIX enhanced with XML display format
NEWS 19 NOV 30 ICSD reloaded with enhancements
NEWS 20 DEC 04 LINPADOCDB now available on STN
NEWS 21 DEC 14 BEILSTEIN pricing structure to change
NEWS 22 DEC 17 USPATOLD added to additional database clusters
NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN
NEWS 24 DEC 17 DGENE now includes more than 10 million sequences
NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS 26 DEC 17 MEDLINE and LMEMLINE updated with 2008 MeSH vocabulary
NEWS 27 DEC 17 CA/Caplus enhanced with new custom IPC display formats
NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD
NEWS 29 JAN 02 STN pricing information for 2008 now available
NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:04:34 ON 18 JAN 2008

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:04:50 ON 18 JAN 2008

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STRUCTURE FILE UPDATES: 17 JAN 2008 HIGHEST RN 1000264-70-9

DICTIONARY FILE UPDATES: 17 JAN 2008 HIGHEST RN 1000264-70-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

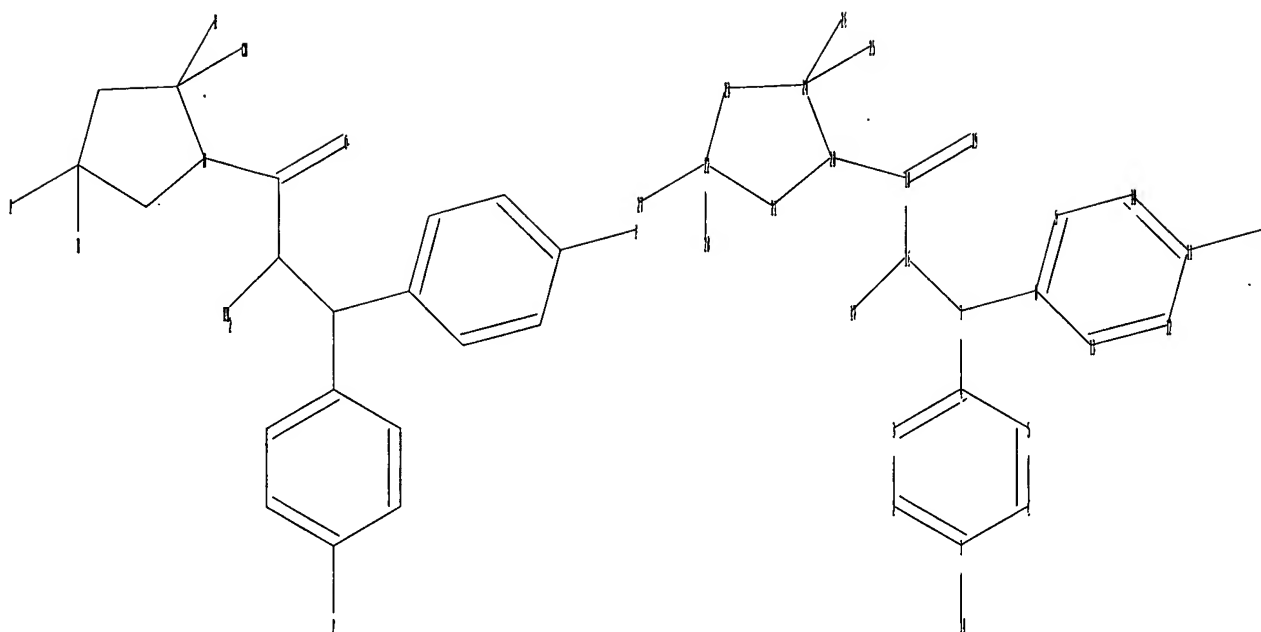
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10565294\1.str



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ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 20 21 22 23 24
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ring bonds :
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21-22 22-23 23-24
exact/norm bonds :
16-17 18-19 18-20 20-21 20-24 21-22 22-23 23-24
exact bonds :
1-14 4-7 7-8 7-16 11-15 16-18 22-27 22-28 24-25 24-26
normalized bonds :
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Match level :
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11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
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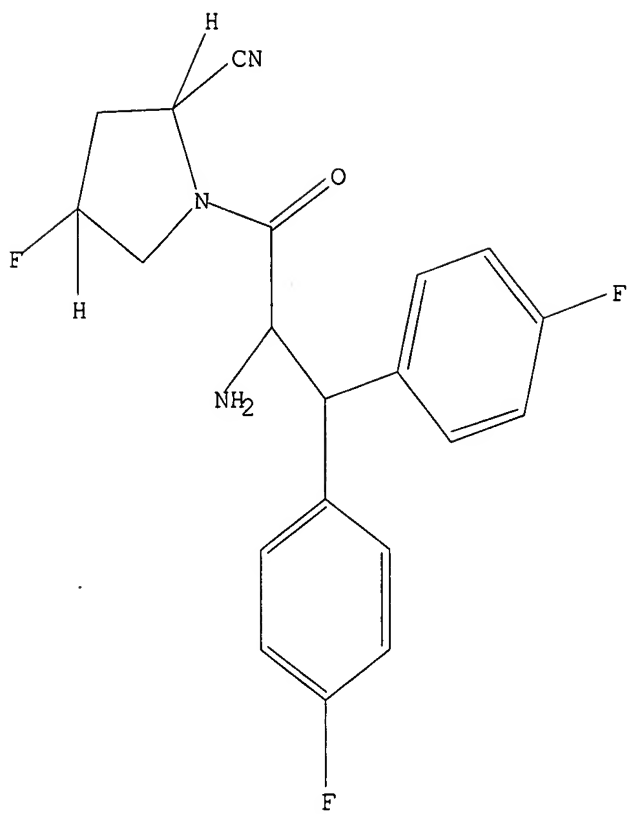
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



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L2 0 SEA SSS SAM L1

=> s ll full

L3 3 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.36	178.57

FILE 'CAPLUS' ENTERED AT 13:05:18 ON 18 JAN 2008
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FILE COVERS 1907 - 18 Jan 2008 VOL 148 ISS 4
FILE LAST UPDATED: 17 Jan 2008 (20080117/ED)

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L4 4 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:945768 CAPLUS
 DOCUMENT NUMBER: 145:328394
 TITLE: Roflumilast for the treatment of diabetes mellitus
 INVENTOR(S): Kley, Hans-Peter; Hanauer, Guido; Hauser, Daniela; Schmidt, Beate; Bredenbroeker, Dirk; Wurst, Wilhelm; Kemkowski, Joerg
 PATENT ASSIGNEE(S): Altana Pharma AG, Germany
 SOURCE: PCT Int. Appl., 67pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006094942	A1	20060914	WO 2006-EP60445	20060303
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			EP 2005-101780	A 20050308

AB The invention discloses the use of Roflumilast and/or Roflumilast-N-Oxide for the treatment of diabetes mellitus and accompanying disorders thereof.

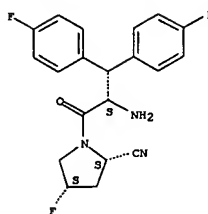
The invention addnl. discloses combinations of Roflumilast and/or Roflumilast-N-Oxide with other active agents for the treatment of diabetes mellitus.

IT 483369-58-0
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Roflumilast for treatment of diabetes mellitus and accompanying disorders, and combinations with other agents)

RN 483369-58-0 CAPLUS
 CN 2-Pyrrolidinedicarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, (2S,4S)- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:944442 CAPLUS
 DOCUMENT NUMBER: 145:328392
 TITLE: Roflumilast for the treatment of diabetes mellitus and accompanying disorders, and combinations with other agents
 INVENTOR(S): Kley, Hans-Peter; Hanauer, Guido; Hauser, Daniela; Schmidt, Beate; Bredenbroeker, Dirk; Wurst, Wilhelm; Kemkowski, Joerg
 PATENT ASSIGNEE(S): Altana Pharma AG, Germany
 SOURCE: PCT Int. Appl., 71pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006094933	A1	20060914	WO 2006-EP60418	20060303
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2006222060	A1	20060914	AU 2006-222060	20060303
CA 259376	A1	20060914	CA 2006-259376	20060303
EP 1874308	A1	20060109	EP 2006-708617	20060303
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
NO 2007004943	A	20071001	NO 2007-4943	20071001
KR 2007111539	A	20071121	KR 2007-722434	20071001
IN 2007001586	A	20071109	IN 2007-001586	20071003
PRIORITY APPLN. INFO.:			EP 2005-101772	A 20050308
			WO 2006-ZP60418	W 20060303

AB The invention relates to the use of Roflumilast and/or Roflumilast-N-Oxide for the treatment of diabetes mellitus and accompanying disorders thereof.

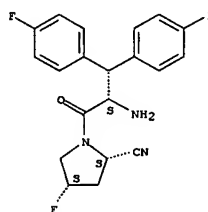
The invention addnl. relates to combinations of Roflumilast and/or Roflumilast-N-Oxide with other active agents for the treatment of diabetes mellitus.

IT 483369-58-0, DENAGLIPTIN
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Roflumilast for treatment of diabetes mellitus and accompanying disorders, and combinations with other agents)

RN 483369-58-0 CAPLUS

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN 2-Pyrrolidinedicarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, (2S,4S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

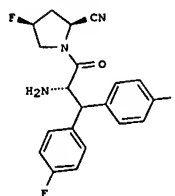
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:99465 CAPLUS
 DOCUMENT NUMBER: 142:197869
 TITLE: A preparation of alanylpyrrolidinecarbonitrile derivative and its anhydrous crystalline forms
 INVENTOR(S): Igo, David H.; Johnson, Paul R.; Patterson, Daniel E.;
 PATENT ASSIGNEE(S): Randhawa, Amarjit Sab
 SOURCE: SmithKline Beecham Corporation, USA
 PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

Instant App.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005009956	A1	20050203	WO 2004-US23263	20040719
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2004259741	A1	20050203	AU 2004-259741	20040719
CA 2532397	A1	20050203	CA 2004-2532397	20040719
EP 1654226	A1	20060510	EP 2004-778669	20040719
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BR 2004012763	A	20060926	BR 2004-12763	20040719
CN 1852893	A	20061025	CN 2004-80027093	20040719
JP 2006528187	T	20061214	JP 2006-521180	20040719
IN 2006K000096	A	20070622	IN 2006-K096	20060112
MX 2006PA00725	A	20060338	MX 2006-PA725	20060119
US 2007066677	A1	20070322	US 2006-565294	20060120
WO 2006000399	A	20060217	WO 2006-399	20060125
PRIORITY APPLN. INFO.:			US 2006-488902P	P 20030721
			WO 2004-US23263	W 20040719

GI

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



I

AB The invention relates to a preparation of alanylpyrrolidinecarbonitrile derivative
 I and its anhydrous crystalline forms, useful as serine proteases inhibitors. For

instance, 1-p-TsOH (pK_i > 5.0) was prepared via amidation of N-[[[(1,1-dimethylethyl)oxyl]carbonyl]-4-fluoro-β-(4-fluorophenyl)-L-phenylalanine by (2S,4S)-4-fluoropyrrolidine-2-carbonitrile p-toluenesulfonic acid.

IT 483367-65-3P 811432-66-3P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

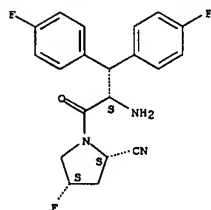
(preparation of alanylpyrrolidinecarbonitrile derivative and its anhydrous crystalline forms useful as serine protease inhibitor)

RN 483367-65-3 CAPLUS

CN 2-Pyrrolidinecarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, monohydrochloride, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



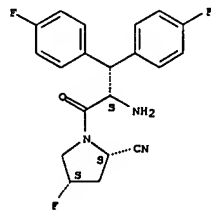
● HCl

RN 811432-66-3 CAPLUS
 CN 2-Pyrrolidinecarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, (2S,4S)-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CH 1

CRN 483369-58-0
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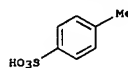
Absolute stereochemistry.



CH 2

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L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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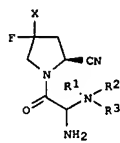
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:22848 CAPLUS
 DOCUMENT NUMBER: 138:90071
 TITLE: Preparation of fluoropyrrolidinecarbonitrile derivatives as dipeptidyl peptidase inhibitors
 Haffner, Curt Dale; McDougald, Darryl Lynn; Randhawa, Amarjit Sab; Reister, Steven Michael; Lenhard, James Martin
 INVENTOR(S):
 PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA
 SOURCE: PCT Int. Appl., 186 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003002531	A2	20030109	WO 2002-US20471	20020626
WO 2003002531	A3	20030403		
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AU 2002322344	A1	20030303	AU 2002-322344	20020626
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EP 1406873	B1	20070926		
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NZ 529973	A	20060127	NZ 2002-529973	20020626
CN 1990468	A	20070704	CN 2007-1000468	20020626
CN 1990469	A	20070704	CN 2007-1000469	20020626
AT 374181	T	20071015	AT 2002-756329	20020626
EP 1862457	A2	20071205	EP 2007-117167	20020626
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ZA 2003000170	A	20050225	ZA 2003-9170	20031125
IN 2003001536	A	20060113	IN 2003-KN1536	20031125
MX 2003PR1907	A	20040326	MX 2003-PA11907	20031218
US 2004171848	A1	20040902	US 2003-481293	20031219
US 7132443	B2	20061107		
US 2006306886	A	20061109	JP 2006-177193	20060627
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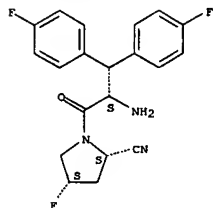
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 US 2002-376015P P 20020426
 CN 2002-812736 A3 20020626
 EP 2002-756329 A3 20020626
 JP 2003-508714 A3 20020626
 WO 2002-US20471 W 20020626

OTHER SOURCE(S): MARPAT 138:90071
 GI



AB Novel compds. I [X = H or F; R1, R2 = (un)substituted (hetero)aryl; R3 = H or alkyl; or R1, R2 = H, alkyl or CR1R2 is a ring system; R3 = (CH2)0-5-Y-(CH2)0-12-R4, where Y = S(O)0-2, O, alk(en)(yn)ylene or a bond; R4 = (un)substituted (cyclo)alkyl, (hetero)aryl, etc.; for Y = SO or SO2, R4 may also be an amino group or hydroxyl] were prepared for inhibiting serine proteases such as dipeptidyl peptidases (e.g., DPP-IV). Thus, (2S,4S)-1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)propanoyl]-4-fluoropyrrolidine-2-carbonitrile hydrochloride, prepared via acylation of (2S,4S)-4-fluoro-2-pyrrolidinecarbonitrile tosylate, showed IC50 = 22 nM for inhibition of human DPP-IV (vs. 151 nM for the analog which is not fluorinated at the pyrrolidine ring).
 IT 483367-65-3P 483369-58-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fluoropyrrolidinecarbonitrile derivs. as dipeptidyl peptidase inhibitors)
 RN 483367-65-3 CAPLUS
 CN 2-Pyrrolidinecarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, monohydrochloride, (2S,4S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

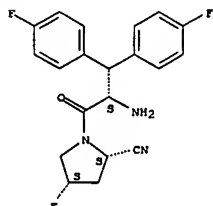
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

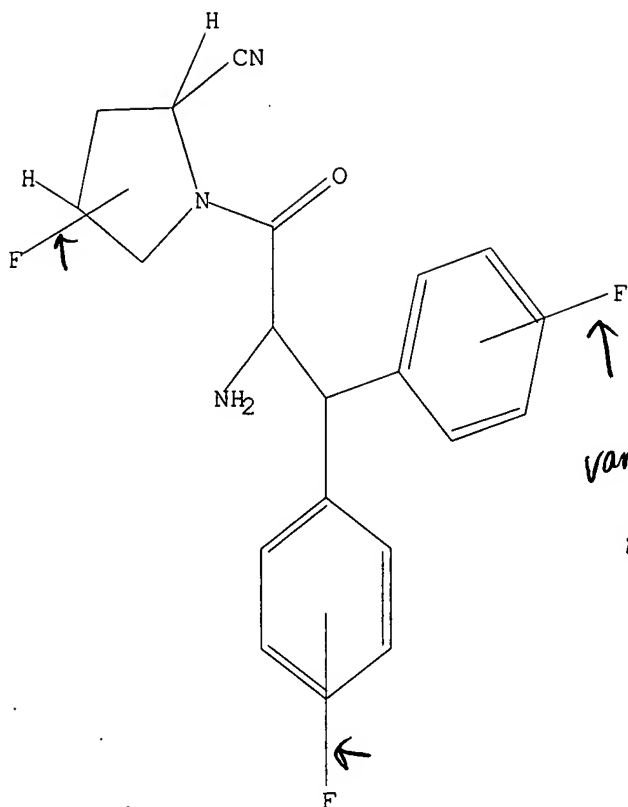


● HCl

RN 483369-58-0 CAPLUS
 CN 2-Pyrrolidinecarbonitrile, 1-[(2S)-2-amino-3,3-bis(4-fluorophenyl)-1-oxopropyl]-4-fluoro-, (2S,4S)- (CA INDEX NAME)

Absolute stereochemistry.



Broader Search

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:09:52 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 13:09:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 58 TO ITERATE

100.0% PROCESSED 58 ITERATIONS

SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=>

3 ANSWERS

*Same as
before*